INDEX OF SUBJECTS

Acid mucopolysaccharide—liposarcoma 497
Alcoholic hyalin 49
Allergy, auto- 673
Aminonucleoside nephrosis 583
Amylase—pancreatic damage 137
Amyloidosis, experimental—spleen. 413
Anemia, experimental 569
Atrophy, bronchial 63
Arteriosclerosis—experimental ... 521
——fibrinogenesis 377
Aschoff body 507
Atherosclerosis—cholesterol 713
Atrial appendage 507
Auto-allergic lesion, experimental . 673
Bacterial endotoxemia 245
Bacterial endotoxin 751
Bile formation 343
Bronchial collapse 63
Capillary occlusion—bacterial endotoxin 751
Carcinoma—squamous 101
——thyroid 599
Chelation, zinc 357
Chemodectoma—lung 641
Cholecystitis, experimental 631
Cholesterol atherosclerosis 713
Cirrhosis—alcoholic hyalin 49
——classification 21
Connective tissue—streptococcal extract 79
Cortisone—effect on atherosclerosis . 713
——pancreas 121
Corynebacterium diphtheriae ... 477
Dihydrocholesterol 631
Diphtheria, experimental 477
DOCA hypertension 751
Dystrophy—muscle 333
Egg—experimental diphtheria 477
Electron microscopy—amyloid ... 413
——liver 343
——muscle 215; 333
——nephritis 729
——spleen 413
——squamous carcinoma 101
Emphysema 161; 309; 391
——bronchial atrophy 63
——experimental 391
Endotoxemia, experimental 245
Endotoxin—ischemic necrosis 551
——renal lesion 751
Equine abortion virus 433
Ethionine—amylase values 137
Fibrinogenesis—smooth muscle ... 377
Gallstones, experimental 631
Glomerulosclerosis, intercapillary. 293
Glomerulus—enlargement 695
——tetralogy of Fallot 695
Guinea pig—leukemia 191
Hamster—glomerulosclerosis 293
——hepatitis, experimental 433
——squamous carcinoma transplant .. 101
Heart—Aschoff body 507
Hepatitis—equine abortion virus ... 433
Histochemistry—alcoholic hyalin . 49
——aminonucleoside nephrosis 583
——equine abortion virus 433
——sialomucin 599
Hormone—vaginal inflammation ... 769
Hyalin, alcoholic 49
Hyaluronidase—acid mucopolysaccharide 497
Hypertension—cholesterol atherosclerosis 713
——DOCA-induced 751
Hypervitaminosis D 521
Influenza virus—tissue culture 231
Intercapillary glomerulosclerosis .. 293
Irradiation—glomerulosclerosis 293
——prostate 203
——testis 203
Kidney—aminonucleoside nephrosis . 583
——effect of endotoxin 751
——glomerular enlargement 695
——intercapillary glomerulosclerosis.. 293
——nephrotoxic serum nephritis 729
——renal hypertension 713
——renin 443
——tetralogy of Fallot 695
Kwashiorkor, experimental 121
Leukemia—transmissible 191
Lipofuscin 457
Liposarcoma—acid mucopolysaccharide 497
Liver—bile formation 343
——cirrhosis 21
——hepatitis, experimental 433
——hyalin, alcoholic 49
Lung—chemodectoma 641
——emphysema 63; 161; 309; 391
Lymphocyte—plasma cell 175
Malnutrition 121
Marschalkó plasma cell 175
Mast cell 457
Mouse—anemia, experimental 569
——estrus 769
——glomerulosclerosis 293
——mast cell 457

Mouse (*continued*)
——siderosis 457
Mucopolysaccharide—liposarcoma 497
Mucosa, olfactory 1
Muscle—dystrophy 333
——regeneration 613
——ultrastructure 215
Necrosis—skin 551
Nephritis, nephrotoxic serum 729
Nephrosis, aminonucleoside 583
Neuron, sensory—nose 1
Newcastle disease virus—tissue culture 231
Olfactory mucosa 1
Pancreas—cortisone 121
——ethionine 137
——protein malnutrition 121
Phagocytosis 279
Plasma cell 175
Prostate—irradiation 203
——zinc chelation 357
Protein malnutrition 121
Pulmonary emphysema . 63; 161; 309
——experimental 391
Rabbit—amyloid, experimental 413
——arteriosclerosis 521
——cholesterol atherosclerosis 713
——cortisone 713
——dihydrocholesterol 631
——emphysema 309; 391
——hypertension 713
——protein malnutrition 121
——renin distribution 443
——shock, experimental 245; 551
Rat—DOCA hypertension 751
——ethionine 137
——glomerulosclerosis 293
——irradiation 203
——muscle regeneration 613
——nephritis 729
——prostate 203; 357

Rat (*continued*)
——renin distribution 443
——testis 203
——thyroid carcinoma 599
Regeneration—muscle 613
Renal hypertension—cholesterol atherosclerosis 713
Renin—distribution 443
Reticuloendothelial system—hyperactivity 569
Rheumatic heart disease 507
Sensory neuron, olfactory 1
Shock, experimental 245; 551
Sialomucin—thyroid 599
Siderosis 457
Skin 101
——necrosis 551
Smooth muscle—fibrinogenesis 377
Spleen—amyloidosis, experimental . 413
Squamous carcinoma 101
Streptococcus—extract 79
Striated muscle 215; 333; 613
Testis—irradiation 203
Tetralogy of Fallot—glomerulus . 695
Thyroid—transplantable carcinoma . 599
Tissue culture—effects of virus ... 231
Transmissible leukemia 191
Transplant—muscle 613
——squamous carcinoma 101
——thyroid carcinoma 599
Trauma, experimental—muscle 613
Vagina—inflammation 769
Vasopressor—ischemic necrosis ... 551
Vein—auto-allergic lesion 673
Virus—equine abortion 433
——influenza 231
——Newcastle disease 231
Vitamin D excess 521
X-irradiation—glomerulosclerosis . 293
Zinc chelation—rat prostate 357

INDEX OF AUTHORS

Anderson, W. A. D. See Gunn, Gould and Anderson (August) 203
Angevine, D. M. See Kitiyakara and Angevine (November) 613
Antopol, W. See McCluskey, Zweifach, Antopol, Benacerraf and Nagler (September) 245
Ashworth, C. T., and Sanders, E. Anatomic pathway of bile formation. (September) 343
Bauer, W. C., and Rosenberg, B. F. A quantitative study of glomerular enlargement in children with tetralogy of Fallot: a condition of glomerular enlargement without an increase in renal mass. (December) 695
Beaver, D. L. The hormonal induction of a vaginal leukocytic exudate in the germ-free mouse. (December) 769
Benacerraf, B. See Gorstein and Benacerraf (November) 569
——. See McCluskey, Zweifach, Antopol, Benacerraf and Nagler (September) . . . 245
Bensch, K. See Korn, Bensch, Liebow and Castleman (December) 641
Bevans, M. See Mosbach and Bevans (November) 631
Brunson, J. G. See Evers and Brunson (November) 551
Buddingh, G. J., and Henigst, W. Experimental infection of embryonated eggs with *Corynebacterium diphtheriae*. (October) 477
Calkins, E. See Cohen, Weiss and Calkins (October) 413
Campagna-Pinto, D. See Norkin, Weitzel, Campagna-Pinto, MacDonald and Mallory (July) 49
Castleman, B. See Korn, Bensch, Liebow and Castleman (December) 641
Churg, J.; Grishman, E., and Mautner, W. Nephrotoxic serum nephritis in the rat. Electron and light microscopic studies. (December) 729
Cohen, A. S.; Weiss, L., and Calkins, E. Electron microscopic observations of the spleen during the induction of experimental amyloidosis in the rabbit. (October) 413
Craddock, J. G. See Cromartie, Schwab and Craddock (July) 79
Cromartie, W. J.; Schwab, J. H., and Craddock, J. G. The effect of a toxic cellular component of group A streptococci on connective tissue. (July) 79
Dalldorf, F. G., and Murphy, G. E. Relationship of Aschoff bodies in cardiac atrial appendages to the natural history of rheumatic heart disease. (November) . . . 507
Demopoulos, H. See Kaley, Demopoulos and Zweifach (December) 751
——; **Kaley, G., and Zweifach, B. W.** The histologic distribution of renin in the kidneys of the rat and rabbit. (October) 443
Edwards, G. A., and Makk, L. A comparative micromorphologic study of normal human epidermis and a human squamous cell carcinoma transplant. (July) . . . 101
Enzinger, F. M. See Winslow and Enzinger (October) 497
Evers, C. G., and Brunson, J. G. Studies on experimental shock: production of ischemic necrosis of the skin by an intradermal injection of endotoxin or vasopressor amine. (November) 551
Fisher, E. R., and Tapper, E. The effect of renal hypertension on cholesterol atherosclerosis in cortisone-treated rabbits. (December) 713
Gentry, G. A., and Randall, C. C. Studies on hepatitis in hamsters infected with equine abortion virus. III. Nuclear protein changes. A histochemical study. (October) 433
Gordon, G. B., and King, D. W. Phagocytosis. (September) 279
Gorstein, F., and Benacerraf, B. Hyperactivity of the reticuloendothelial system and experimental anemia in mice. (November) 569
Gould, T. C. See Gunn, Gould and Anderson (August) 203
Grishman, E. See Churg, Grishman and Mautner (December) 729
Gunn, S. A.; Gould, T. C., and Anderson, W. A. D. The effect of x-irradiation on the morphology and function of the rat testis. (August) 203

Guttman, P. H., and Kohn, H. I. Progressive intercapillary glomerulosclerosis in the mouse, rat, and Chinese hamster. (September) 293
Hass, G. M.; Trueheart, R. E., and Hemmens, A. Experimental arteriosclerosis due to hypervitaminosis D. (November) 521
Haust, M. D.; More, R. H., and Movat, H. Z. The role of smooth muscle cells in the fibrinogenesis of arteriosclerosis. (October) 377
Hemmens, A. See Hass, Trueheart and Hemmens (November) 521
Henigst, W. See Buddingh and Henigst (October) 477
Hess, R. Renal histochemistry of oxidative enzyme systems in aminonucleoside nephrosis. (November) 583
Jungeblut, C. W., and Kodza, H. Attempts to adapt leukemia L_2C from inbred to noninbred guinea pigs. (August) 191
Kaley, G. See Demopoulos, Kaley and Zweifach (October) 443
——; Demopoulos, H., and Zweifach, B. W. Production of occlusive vascular lesions by bacterial endotoxin in kidneys of rats with deoxycorticosterone hypertension. (December) 751
Kaufman, N. See Kinney, Kaufman, Klavins, Marsters and Tseng (August) . . . 137
——. See Mason and Kaufman (August) 231
King, D. W. See Gordon and King (September) 279
Kinney, T. D.; Kaufman, N.; Klavins, J. V.; Marsters, R. W., and Tseng, C. Y. The relationship of plasma amylase to pancreatic damage induced by ethionine. (August) 137
Kitiyakara, A., and Angevine, D. M. Regeneration of injured and transplanted striated voluntary muscle in rats. (November) 613
Klavins, J. V. See Kinney, Kaufman, Klavins, Marsters and Tseng (August) . . . 137
Kodza, H. See Jungeblut and Kodza (August) 191
Kohn, H. I. See Guttman and Kohn (September) 293
Korn, D.; Bensch, K.; Liebow, A. A., and Castleman, B. Multiple minute pulmonary tumors resembling chemodectomas. (December) 641
Lazarus, S. S. See Volk and Lazarus (August) 121
Liebow, A. A. See Korn, Bensch, Liebow and Castleman (December) 641
Logothetopoulos, J. Intravital chelation of zinc in the prostate of the rat (histochemical and histologic observations). (September) 357
MacDonald, R. A. See Norkin, Weitzel, Campagna-Pinto, MacDonald and Mallory (July) 49
Makk, L. See Edwards and Makk (July) 101
Mallory, G. K. See Norkin, Weitzel, Campagna-Pinto, MacDonald and Mallory (July) 49
Marsters, R. W. See Kinney, Kaufman, Klavins, Marsters and Tseng (August) . . 137
Mason, E. J., and Kaufman, N. The toxic properties of massive inoculums of Newcastle disease virus and influenza virus (PR8) for cell strains derived from normal and neoplastic tissue. (August) 231
Mautner, W. See Churg, Grishman and Mautner (December) 729
McCluskey, R. T.; Zweifach, B. W.; Antopol, W.; Benacerraf, G., and Nagler, A. L. Pathogenesis of experimental shock. I. Absence of morphologic evidence for bacterial endotoxemia. (September) 245
More, R. H. See Haust, More and Movat (October) 377
Mosbach, E. H., and Bevans, M. Early pathologic and biochemical changes in rabbits fed dihydrocholesterol. (November) 631
Movat, H. Z. See Haust, More and Movat (October) 377
Murphy, G. E. See Dalldorf and Murphy (November) 507
Nagler, A. L. See McCluskey, Zweifach, Antopol, Benacerraf and Nagler (September) 245
Norkin, S. A.; Weitzel, R.; Campagna-Pinto, D.; MacDonald, R. A., and Mallory, G. K. "Alcoholic" hyalin in human cirrhosis: histochemical studies. (July) 49
Randall, C. C. See Gentry and Randall (October) 433
Rosenberg, B. F. See Bauer and Rosenberg (December) 695
Sanders, E. See Ashworth and Sanders (September) 343

Schultz, E. S. Repair of the olfactory mucosa with special reference to regeneration of olfactory cells (sensory neurons). (July) 1
Schwab, J. H. See Cromartie, Schwab and Craddock (July) 79
Spicer, S. S. Siderosis associated with increased lipofuscins and mast cells in aging mice. (October) 457
——; **Wollman, S. H., and Warren, L.** Histochemical demonstration of sialomucin in transplantable thyroid carcinoma. (November) 599
Steiner, P. E. Precision in the classification of cirrhosis of the liver. (July) 21
Strawbridge, H. T. G. Chronic pulmonary emphysema (an experimental study). I. Historical review. (August) 161
——. Chronic pulmonary emphysema (an experimental study). II. Spontaneous pulmonary emphysema in rabbits. (September) 309
——. Chronic pulmonary emphysema (an experimental study). III. Experimental pulmonary emphysema. (October) 391
Tapper, E. See Fisher and Tapper (December) 713
Tompkins, E. H. The conversion of lymphocytes with "atypical nuclei" into plasma cells of the Marschalkó type. (August) 175
Trueheart, R. E. See Hass, Trueheart and Hemmens (November) 521
Tseng, C. Y. See Kinney, Kaufman, Klavins, Marsters and Tseng (August) . . . 137
Van Breemen, V. L. Ultrastructure of human muscle. I. Observations on normal striated muscle fibers. (August) 215
——. Ultrastructure of human muscle. II. Observations on dystrophic striated muscle fibers. (September) 333
Volk, B. W., and Lazarus, S. S. Rabbit pancreas in protein malnutrition (experimental Kwashiorkor) and after cortisone administration. (August) 121
Waksman, B. H. The distribution of experimental auto-allergic lesions; its relation to the distribution of small veins. (December) 673
Warren, L. See Spicer, Wollman and Warren (November) 599
Weiss, L. See Cohen, Weiss and Calkins (October) 413
Weitzel, R. See Norkin, Weitzel, Campagna-Pinto, MacDonald and Mallory (July) . 49
Winslow, D. J., and Enzinger, F. M. Hyaluronidase-sensitive acid mucopolysaccharides in liposarcomas. (October) 497
Wollman, S. H. See Spicer, Wollman and Warren (November) 599
Wright, R. R. Bronchial atrophy and collapse in chronic obstructive pulmonary emphysema. (July) 63
Zweifach, B. W. See Demopoulos, Kaley and Zweifach (October) 443
——. See Kaley, Demopoulos and Zweifach (December) 751
——. See McCluskey, Zweifach, Antopol, Benacerraf and Nagler (September) . . . 245